



10 pgs.  
DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
WASHINGTON, DC 20350-2000

IN REPLY REFER TO

OPNAVINST 3312.1  
OP-39  
10 MAR 1987

OPNAV INSTRUCTION 3312.1

From: Chief of Naval Operations

Subj: SURFACE ACOUSTIC ANALYSIS SPECIALIST PROGRAM

Ref: (a) ASW Continuum Training Plan 1500 ser 113/6U366335 of  
4 Jun 86 (NOTAL)

Encl: (1) Surface Acoustic Analysis Specialist Billet Summary  
(2) Surface Ship Acoustic Analyst Billet Distribution

1. Purpose. To establish the Surface Acoustic Analysis Specialist Program for surface sonar technicians (STG) and provide the criteria for personnel qualification and program management.

2. Background. The introduction of integrated surface, anti-submarine warfare (ASW) sonar systems requires sonar operators to be knowledgeable and skilled in acoustic analysis. The rapid improvement of threat submarine capabilities makes acoustic analysis one of the most difficult challenges in ASW. The Surface Acoustic Analysis Specialist Program is established to meet this challenge and increase fleet ASW readiness. The program improves the manner in which sonar operators are trained, ships' ASW billets are manned, and acoustic analysis proficiency is maintained. The program provides surface combatant ships with an enhanced onboard acoustic analysis capability and establishes the training path, qualification requirements and proficiency standards for surface acoustic analysis specialists.

3. Discussion. The ASW Training Continuum, reference (a), identified three levels of personnel performance proficiency: apprentice, journeyman, and master. The Surface Acoustic Analysis Specialist Program begins at the apprentice level with the introduction of all surface sonar technicians to basic acoustic analysis in sonar technician "A" school and culminates at the master level with the development of trained and experienced acoustic analysis specialists.

<u>Courses of Instruction</u>	<u>NEC</u>	<u>Course #</u>	<u>Duration (wks)</u>
Basic Acoustic Analyst	0000	K-130-0037	4
Intermediate Acoustic Analyst	0445	K-130-1093	6
Advanced Acoustic Analyst	0450	J-210-0529	5
Acoustic Analysis Specialist	0417	J-130-0500	20

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a. Basic Acoustic Analyst (STG-0000). The basic acoustic analyst is a trained, apprentice sonar operator who is able to identify and measure the frequency of major waterborne acoustic energy sources, interpret active sonar displays, and assign initial classification to threat and non-threat contacts and weapons by standard acoustic analysis techniques.

b. Intermediate Acoustic Analyst (STG-0445). The intermediate acoustic analyst is an experienced, journeyman sonar operator who is able to: classify threat and non-threat surface and subsurface contacts including torpedoes to probable main propulsion type in a multiple contact environment; manipulate active and passive sonar systems to optimize their performance; and extrapolate acoustic signature characteristics utilizing visual and aural indications of major and minor sound sources.

c. Advanced Acoustic Analyst (STG-0450). The advanced acoustic analyst is a master sonar operator and a qualified sonar supervisor who is able to classify surface and subsurface contacts by class and distinguish among class variants utilizing visual and aural indications of major, minor, and transient sound sources, active emissions, and active transmissions in a multiple contact environment; interpret indirect and inferred relationships, modulation structures, resonance components and target behavior characteristics; recognize friendly and threat weapon system acoustic characteristics; and accomplish acoustic intelligence (ACINT) collection requirements and procedures.

d. Acoustic Analysis Specialist (STG-0417). The acoustic analysis specialist is an experienced, master sonar supervisor who is the ship's acoustic analysis expert. He advises on threat interpretation and sonar employment; assists in planning and preparations for ASW operations; analyzes and determines the classification of received acoustic signals; evaluates target motion analysis and sonobuoy localization; conducts post mission analysis and initial reconstruction; and directs the ship's acoustic analysis training and qualification program.

(1) Initial entry into the surface acoustic analysis specialist training will be authorized by Commander, Naval Military Personnel Command. This will be based on a favorable recommendation submitted by an individual's commanding officer via the surface type commander, upon completion of the following prerequisites:

(a) Completion of advanced acoustic analyst training and assignment of NEC STG-0450.

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(b) Successful completion of an entry level screening exam prepared and administered by the surface type commander.

(2) Upon completion of specialized training, the NEC STG-0417 will be awarded. Continuation in the program will be contingent upon maintaining proficiency per standards delineated jointly by the surface type commanders. STG-0417 personnel may be eligible for special duty assignment pay (SDAP), specialized shore duty assignments, and continued assignment to approximately 441 STG-0417 billets listed in enclosure (1).

e. Acoustic Intelligence Specialist (STG-0416). Further professional development may be obtained by requesting and being accepted into the Surface Acoustic Intelligence Specialist Program. Requests should be submitted in accordance with chapter 9 of the Enlisted Transfer Manual and OPNAVINST S1510.9 (series).

f. Shipboard Manning. The number and mix of surface acoustic analysts will vary among surface combatant ships depending upon their ASW capabilities. In general, surface combatant ships equipped with tactical towed array sonars or sonobuoy processors will be manned according to the configurations listed in enclosure (2).

#### 4. Action

a. Chief of Naval Operations will:

(1) Establish and maintain STG-0417 billets (OP-39).

(2) Determine the requirement for SDAP for the STG-0417 NEC (OP-136).

(3) Conduct an annual review of the STG-0417 billet file to ensure fleet requirements are being met and program objectives are being achieved (OP-39).

(4) Draft and maintain the Surface Acoustic Analysis Specialist Navy Training Plan (OP-39).

b. Commander, Naval Military Personnel Command will:

(1) Establish the Acoustic Analysis Specialist NEC (NMPC-5).

(2) Approve personnel for entry into the Acoustic Analysis Specialist training pipeline (NMPC-406C).

c. Chief of Naval Education and Training will establish the STG-0417 training course.

d. Commander Naval Surface Force, U. S. Atlantic Fleet and Commander Naval Surface Force, U. S. Pacific Fleet will:

(1) Administer the Surface Acoustic Analysis Specialist Program to maintain acoustic analysis proficiency.

(2) Develop and promulgate joint STG-0417 proficiency standards.

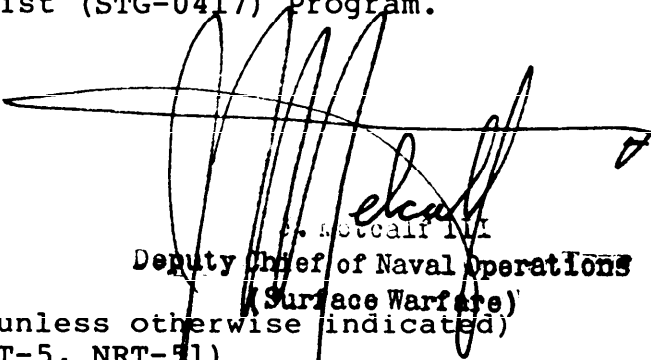
(3) Develop and administer the STG-0417 entry level screening examination.

(4) Administer the Surface Ship ASW Analysis Centers.

e. Commanding Officers will:

(1) Maintain a vigorous acoustic analysis qualification and proficiency training program aboard surface combatant ships.

(2) Recommend eligible personnel for entry into the Surface Acoustic Analysis Specialist (STG-0417) Program.



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Deputy Chief of Naval Operations  
(Surface Warfare)

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SURFACE ACOUSTIC ANALYSIS SPECIALIST BILLET SUMMARY

SHORE BILLETS

<u>LOCATION</u>	<u>TOTAL</u>	<u>NR/RATE</u>	<u>RATE</u>
SURFACE SHIP ASW ANALYSIS CENTERS (4)	84	4	E-9
NORFOLK, VA		12	E-8
SAN DIEGO, CA		36	E-7
CHARLESTON, SC		32	E-6
PEARL HARBOR, HI			
SURFACE SHIP ASW ANALYSIS DETS (4)	28	4	E-8
		4	E-7
		20	E-6
FLEASWTRACENLANT, NORFOLK, VA	20	1	E-9
		2	E-8
		3	E-7
		14	E-6
FLEASWTRACENPAC, SAN DIEGO, CA	8	1	E-8
		2	E-7
		5	E-6
FLETRAGRU(S)	10	5	E-7
		5	E-6
MOBILE TRAINING TEAMS	2	1	E-7
CINCLANTFLT TASC, NORFOLK, VA	1	1	E-6
COMNAVSURFLANT, NORFOLK, VA	1	1	E-9
COMNAVSURFPAC, SAN DIEGO, CA	1	1	E-9
SWDG, LITTLE CREEK, VA	1	1	E-7
CTF 84, NORFOLK, VA	1	1	E-8
NUSC, NEW LONDON, CT	1	1	E-8
NAVSTAD, SAN DIEGO, CA	1	1	E-7

AFLOAT BILLETS

FF 1052 (46)	92	46	E-8
		46	E-6
DD 963 (31)	62	31	E-8
		31	E-6
FFG 7 (51)	51	51	E-7
CG 47 (27)	27	27	E-7
DDG 51 (29)	29	29	E-7
DDG 993 (4)	4	4	E-7
DESRON/CRUDESGRU STAFFS (16)	16	16	E-8

Enclosure (1)

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SURFACE SHIP ACOUSTIC ANALYST BILLET DISTRIBUTION

SHIP CLASS (TACTAS)

NAVY ENLISTED CLASSIFICATION

	<u>STG-NMP</u>	<u>STG-0445</u>	<u>STG-0450</u>	<u>STG-0417</u>
CG 47 (T)	21	6	2	1
CG 47	21	3	2	1
CGN 36	17	3	2	0
CG 26	18	3	2	0
CG 16	16	3	2	0
DDG 51 (T)	21	6	2	1
DDG 993 (T)	21	6	2	1
DDG 993	17	3	2	1
DDG 37	11	3	2	0
DDG 2	16	3	2	0
DD 963 (T)	21	6	2	2
DD 963	18	3	2	1
FFG 7 (T)	11	6	2	1
FFG 7	9	3	2	1
FFG 1	16	3	2	0
FF 1052 (T)	26	6	2	2
FF 1052	20	3	2	1
FF 1040	21	3	2	0
FF 1037	21	3	2	0
TASS DET	11	6	2	1

Enclosure (2)